

DIAZAPHOSPHACYCLES

ABSTRACT OF THE DISCLOSURE

A diazaphosphacycle may be synthesized by reacting a phosphine
5 with a diimine and optionally one or more equivalents of an acid halide, a sulfonyl
halide, a phosphoryl halide, or an acid anhydride in the substantial absence of O₂ to
form the diazaphosphacycle. The phosphine has the formula R¹-PH₂ where R¹ is a
substituted or unsubstituted aryl group, a substituted or unsubstituted alkyl group, a
substituted or unsubstituted alkenyl group, a substituted or unsubstituted cycloalkyl
10 group, or a substituted or unsubstituted ferrocenyl group.